

PCT

RAW SEQUENCE LISTING DATE: 09/09/2004
PATENT APPLICATION: US/10/506,406 TIME: 15:58:04

Input Set : D:\9471-011-999.TXT

```
4 <110> APPLICANT: Swiercz, Rafal
      5
              Selman, Steven
              Jankun, Jerzy
      6
              Chorostowska-Wynimko, Joanna
      8
              Skrzypczak-Jankun, Ewa
     10 <120> TITLE OF INVENTION: MODIFIED PLASMINOGEN ACTIVATOR INHIBITOR
              TYPE-1 AND METHODS BASED THEREON
     14 <130> FILE REFERENCE: 9471-011-999
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/506,406
C--> 17 <141> CURRENT FILING DATE: 2004-09-01
     19 <150> PRIOR APPLICATION NUMBER: PCT/US03/06679
     20 <151> PRIOR FILING DATE: 2003-03-04
     22 <150> PRIOR APPLICATION NUMBER: 60/361,670
     23 <151> PRIOR FILING DATE: 2002-03-04
     25 <160> NUMBER OF SEQ ID NOS: 3
     27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
     29 <210> SEQ ID NO: 1
     30 <211> LENGTH: 2876
     31 <212> TYPE: DNA
     32 <213 > ORGANISM: Hom(e) sapiens
     34 <220> FEATURE:
     35 <221> NAME/KEY: CDS
     36 <222> LOCATION: (76)...(1281)
     37 <223> OTHER INFORMATION: human PAI-1 plus 5' and 3' sequence
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     42
                         Met Gln Met Ser Pro Ala Leu Thr Cys Leu Val Leu
     43
     45 ggc ctg gcc ctt gtc ttt ggt gaa ggg tct gct gtg cac cat ccc cca
                                                                           159
     46 Gly Leu Ala Leu Val Phe Gly Glu Gly Ser Ala Val His His Pro Pro
     47
                 15
                                     20
     49 tee tae gtg gee cae etg gee tea gae tte ggg gtg agg gtg ttt cag
                                                                           207
    50 Ser Tyr Val Ala His Leu Ala Ser Asp Phe Gly Val Arg Val Phe Gln
                                 35
                                                                           255
    53 cag gtg gcg cag gcc tcc aag gac cgc aac gtg gtt ttc tca ccc tat
    54 Gln Val Ala Gln Ala Ser Lys Asp Arg Asn Val Val Phe Ser Pro Tyr
                             50
                                                 55
                                                                      60
    57 ggg gtg gcc tcg gtg ttg gcc atg ctc cag ctg aca aca gga gga gaa
                                                                           303
    58 Gly Val Ala Ser Val Leu Ala Met Leu Gln Leu Thr Thr Gly Gly Glu
                         65
                                             70
    61 acc cag cag att caa gca gct atg gga ttc aag att gat gac aag
                                                                           351
    62 Thr Gln Gln Gln Ile Gln Ala Ala Met Gly Phe Lys Ile Asp Asp Lys
```

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66	Gly	Met.	Ala	Pro	Ala	Leu	Arg	His	Leu	Tyr	Lys	Glu	Leu	Met	Gly	Pro	
67			95					100					105				
69	tgg	aac	aaq	gat	qaq	atc	agc	acc	aca	qac	qcq	atc	ttc	qtc	caq	cqq.	447
									Thr								
71	•	110	-	-		-	115					120	_				
	σat.		aad	cta	at.c	cag	-	ttc	atg	ada	cac		ttc	agg	ata	ttc	495
									Met								
	125	LCu	_,	LCu	• 41	130	019	1110	1100	110	135	1110	1110	**** 9	LC u	140	
		agg	aca	ata	aan		ata	asc	ttt	tca		ata	aaa	202	acc		543
									Phe								, 343
79	AL 9	Der	1111	vai	145	GIII	val	тэр	FILE	150	GIU	vai	Giu	Arg	155	Arg	
-	++~		2+4	-	_	+~~	~+~	224					~~+	a + ~		200	E01
									aca								591
	Pne	тте	тте		Asp	Trp	vaı	гуѕ	Thr	HIS	Tnr	гла	GIY		тте	ser	
83				160					165					170			
							_		gac	_	_			_		_	639
	Asn			Gly	Lys	Gly	Ala		Asp	Gln	Leu	Thr	_	Leu	Val	Leu	
87			1 _. 75					180					185				
									cag								687
90	Val	Asn	Ala	Leu	Tyr	Phe	Asn	Gly	Gln	Trp	Lys	Thr	Pro	Phe	Pro	Asp	
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93	tcc	agc	acc	cac	cgc	cgc	ctc	ttc	cac	aaa	tca	gac	ggc	agc	act	gtc	735
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98	Ser	Val	Pro	Met	Met	Ala	Gln	Thr	Asn	Lys	Phe	Asn	Tyr	Thr	Glu	Phe	
99					225					230			-		235		
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																His	
103				240	_		-	•	245					250	_		
105	aac	gac	acc	cto	ago	ato	tto	att	act	acc	cct	tat	gaa	aaa	gac	ggtg	879
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				-					_	_	_	_			_	His	,
111		270		. ALG	L		275		. LCu	ber	AIG	280					
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																Lys	913
			GIY	ASI	Mec		_	пес	PIO	Arg			ı vaı	пес	PIC	_	•
	285					290					295					300	1000
																ctg	1023
	Pne	ser	Leu	i Giu			. vaı	Asp	ьLeu	. –	_	Pro) Leu	GIU		Leu	
119					305					310					315		
									ttt								1071
	Gly	Met	Thr			Phe	Arg	Gln			Ala	Asp	Phe			Leu	
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127			335	;				340)				345				

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                                              360
133 ata gtc tca gcc cgc atg gcc ccc gag gag atc atc atg gac aga ccc
                                                                   1215
134 Ile Val Ser Ala Arg Met Ala Pro Glu Glu Ile Ile Met Asp Arg Pro
135 365
                       370
                                          375
137 ttc ctc ttt gtg gtc cgg cac aac ccc aca gga aca gtc ctt ttc atg
                                                                   1263
138 Phe Leu Phe Val Val Arg His Asn Pro Thr Gly Thr Val Leu Phe Met
                                      390
139
                   385
141 ggc caa gtg atg gaa ccc tgaccctggg gaaagacgcc ttcatctggg
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142 Gly Gln Val Met Glu Pro
145 acaaaactgg agatgcatcg ggaaagaaga aactccgaag aaaagaattt tagtgttaat 1371 .
146 gactettet gaaggaagag aagacatttg cettttgtta aaagatggta aaccagatet 1431
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164 ctaccaggac agaactttcc ccaattacag ggtgactcac agccgcattg gtgactcact 2511
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176 <213 > ORGANISM: Home sapiens
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179 <223> OTHER INFORMATION: human PAI-1 amino acid sequence, including signal peptide
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```

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185				20					25					30		
	His	LOU	ב וֹ ת		Acn	Dho	Gl v	17a l		₩-1	Dhe	Gln	Gln		בומ	Gln
187		neu	35	SCI	тор	FILE	Gry	40	nrg	Val	rnc	GIII	45	vai	AIG	0111
-	Ala	Sar		Aen	Ara	Δen	Wa l		Dhe	Sar	Dro	Tur		Val	Δla	Ser
189		50	цуз	тор	AI 9	ASII	55	vai	1110	DCI	110	60	CLY	vai	niu	001
	Val		בומ	Mot	T.011	Gln		Thr	Thr	Gl v	G] v		Thr	Gln	Gln	Gln
191		шец	лта	Mec	пец	70	пец	1111	1111	Gry	75	GIU	1111	GIII	0111	80
	Ile	Cln	717	ת ד ת	Mot		Dho	Tara	т1.	λcn		Larc	Glaz	Mot	ב ו ג	
193	116	GIII	Αια	Ата	85	Gry	FIIC	пуъ	116	90	тэр	цуз	Gry	Mec	95	110
	Ala	T 011	7 ~~	uic		Тиг	Larc	Clu	Lou	-	Gl v	Pro	Trn	Δan		Acn
195	Ala	пец	Arg	100	пеп	ıyı	пуъ	Giu	105	Mec	GIY	FIO	тър	110	шуэ	льр
	Glu	Tla	Sar		Thr	Acn	בומ	τlο		₩a1	Gln	Δra	Δen		T.vc	T.eu
197		116	115	1111	1111	дор	лια	120	riie	vai	0111	nr 9	125	шси	цуБ	шец
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199		130	Gry	LIIC	NCC	110	135	1110	1110	n-9	шси	140	1119	001		val
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	145	GIII	vai	rsp	rnc	150	Giu	var	Olu	nr 9	155	,,,,	1110.	110	110	160
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203		115	vai	Lys	165	****	****	Lys	017	170		501			175	017
	Lys	Glv	Δla	Val		Gln	T.e11	Thr	Δra		Val	Leu	Val	Asn		Len
205		O. y	1114	180	тър	0111	LCu	1111	185	шец	• • • •		, 42	190		200
	Tyr	Phe	Asn		Gln	Trn	Lvs	Thr		Phe	Pro	Asp	Ser		Thr	His
207	_		195	0.7	· · · · ·		_,,	200					205			
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213	U-1		-1-	-1-	245					250	-1-		1		255	
	Ser	Met	Phe	Ile		Ala	Pro	Tvr	Glu		Glu	Val	Pro	Leu	Ser	Ala
215				260				-1-	265					270		
	Leu	Thr	Asn		Leu	Ser	Ala	Gln		Ile	Ser	His	Trp	Lys	Gly	Asn
217			275					280					285	•	•	
218	Met	Thr	Arq	Leu	Pro	Arq	Leu	Leu	Val	Leu	Pro	Lys	Phe	Ser	Leu	Glu
219		290				•	295					300				
220	Thr	Glu	Val	Asp	Leu	Arg	Lys	Pro	Leu	Glu	Asn	Leu	Gly	Met	Thr	Asp
	305			_		310	_				315					320
222	Met	Phe	Arg	Gln	Phe	Gln	Ala	Asp	Phe	Thr	Ser	Leu	Ser	Asp	Gln	Glu
223			_		325			_		330					335	
224	Pro	Leu	His	Val	Ala	Gln	Ala	Leu	Gln	Lys	Val	Lys	Ile	Glu	Val	Asn
225				340					345	_		_		350		
226	Glu	Ser	Gly	Thr	Val	Ala	Ser	Ser	Ser	Thr	Ala	Val	Ile	Val	Ser	Ala
227			355					360					365			
	Arg	Met	Ala	Pro	Glu	Glu	Ile	Ile	Met	Asp	Arg	Pro	Phe	Leu	Phe	Val
229	_	370					375			_	_	380				
230	Val	Arg	His	Asn	Pro	Thr	Gly	Thr	Val	Leu	Phe	Met	Gly	Gln	Val	Met
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RAW SEQUENCE LISTING DATE: 09/09/2004 PATENT APPLICATION: US/10/506,406 TIME: 15:58:04

Input Set : D:\9471-011-999.TXT

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	<212> TYPE: PRT Q															
	<213> ORGANISM: Home sapiens															
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			~	NCE:		_	_				_			_	51 .	a 3
244 245	Val	His	His	Pro	Pro 5	Ser	Tyr		Ala	H15	Leu	Ala	ser	Asp	Phe 15	GIY
	Val	Arg	Val	Phe	Gln	Gln	Val	Ala	Gln	Ala	Ser	Lys	Asp	Arg	Asn	Val
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251	_	50	_	_	_		55		_		_	60			<u>.</u>	-
	_	He	Asp	Asp	Lys		Met	Ala	Pro	Ala		Arg	HIS	ьeu	Tyr	
253		T	Mot	~1	Dwo	70	N an	T	7 ~~	~1. ,	75	cor	Th∽	Thr	7 an	80 212
254 255	GIU	Leu	мес	GIA	85	тър	ASII	ьуѕ	Asp	90	тте	ser	IIIL	IIIL	95	на
	т1Д	Dha	17 a l	Gln	-	λen	T.611	Lare	Leu		Gln	Glv	Dhe	Met		His
257	116	FIIC	vai	100	мц	ьэр	пец	пуз	105	vai	GIII	Gry	1110	110	110	*****
_	Phe	Phe	Ara		Phe	Ara	Ser	Thr	Val	Lvs	Gln	Val	Asp		Ser	Glu
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	145	•				150				-	155					160
264	Thr	Arg	Leu	Val	Leu	Val	Asn	Ala	Leu	Tyr	Phe	Asn	Gly	Gln	Trp	Lys
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	· .		_	_	•		215	_,	_	_		220				_
		Leu	Pro	Tyr	His		Asp	Thr	Leu	Ser		Pne	iie	Ala	Ala	
	225	~7	_	~7		230	-		77 -	.	235	3	- 1.	T	a	240
	Tyr	GIu	Lys	GIu		Pro	Leu	ser	Ala		Thr	Asn	ше	Leu		Ala
275	a 3	.	-1 -		245		T	a1	7	250	ml	7	T	Desc	255	T 0
									Asn 265							
277				260					Glu							
	ьeu	vai		PIO	ьуѕ	Pne	ser	280	GIU	1111	GIU	vai	285	цец	Arg	пÃР
279	Dro	T 011	275	7 an	T 011	C1.	Mot		Asp	Mot	Dhe	λνα		Dha	Gln	בו מ
281	PIO	290	GIU	ASII	Бец	GLY	295	1111	Asp	MEC	FILE	300	GIII	FIIC	GIII	AIG
	Λcn		Thr	Car	T.011	Sar		Gln	Glu	Dro	T.011		Wa l	Δla	Gln	Δla
	305	FIIG	1111		Leu	310	rop	CIII	<u> </u>	110	315		* 4.1	111 U	O111	320
		Gln	Lvc	Val	Lve		Glu	Val	Asn	Glu		Glv	Thr	Val	Ala	
285	u		, 5		325		<u> </u>			330	~~-	1			335	
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VERIFICATION SUMMARY

DATE: 09/09/2004 TIME: 15:58:05

PATENT APPLICATION: US/10/506,406

Input Set : D:\9471-011-999.TXT

Output Set: N:\CRF4\09092004\J506406.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application Number

L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date